

ABSTRACT

It is an object of the present invention to provide a method of coating a square wire capable of providing an insulated wire of a square wire that has a high dielectric breakdown voltage.

A method of coating a square wire comprising a step of: carrying out cationic electrodeposition on a square wire to form an insulating film thereon, by using a cationic electrocoating that stored in an electrocoating bath, wherein the shifting speed of the square wire in the electrocoating bath is set in a range from 1 to 80 m/min; the shortest distance from a liquid-contact portion of the square wire onto the cationic electrocoating to an electrode is set longer than 1/2 of the total shift distance of the square wire from the liquid-contact portion of the square wire to a liquid-separation portion in the electrocoating bath, the cationic electrocoating contains a resin composition of which a hydratable functional group is reduced directly by electrons and passivated, resulting in deposition of a film, and the cationic electrocoating contains crosslinked resin particles.